

0700 #6



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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/071,411

DATE: 02/28/2002
TIME: 12:36:58

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\02282002\J071411.raw

4 <110> APPLICANT: Glenn Barnes
5 Joanne Meyer
7 <120> TITLE OF INVENTION: Detection of Polymorphisms in the Human
8 5-Lipoxygenase Gene
10 <130> FILE REFERENCE: MRI-021
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/071,411
C--> 12 <141> CURRENT FILING DATE: 2002-02-07
12 <150> PRIOR APPLICATION NUMBER: 60/267,515
13 <151> PRIOR FILING DATE: 2001-02-08
15 <150> PRIOR APPLICATION NUMBER: 60/314,248
16 <151> PRIOR FILING DATE: 2001-08-21
18 <160> NUMBER OF SEQ ID NOS: 66
20 <170> SOFTWARE: FastSEQ for Windows Version 4.0
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 2189
24 <212> TYPE: DNA
25 <213> ORGANISM: Homo sapiens
27 <400> SEQUENCE: 1
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29 ttccaaatttc aaaacttact atagcactgc ggtaatcaag cagtggtggca ctgtatagca 120
30 tgtacattac agatcagtgg actagaatca atgtccagaaa ataaaccgtt atgtttataa 180
31 tgaattactt ttaataaagg tgtcaagaca acgcaatggg aaaagaataa tgaattcaac 240
32 aaatgtatgc tgacacaaccg gacatgcaca tgcaacacaaa tgaatttgaa ttcttctatc 300
33 gtcacatgca taaaaactaa ctcaaaatgg gtcacggatg taaatgaaaa gctaaaacta 360
34 taataatcct agagggaaaac cttaggatcaa atctttaaga ttttattgtt ggcagtgggtt 420
35 tctcagatag gaccccaaaaa tcacaagcga caaaaagaaa ttggacttaa agttaaatac 480
36 ttttgtctt caaacatcat caagaaagtg aaaacacaac ccgcagaagc aataaaaatg 540
37 tctgttaagtc atgtatccga ttagagactt ctatccagga tatataaaata atgcaattca 600
38 atgataaaaaa agataaataag cccagtttc caaagagtca agcatctgaa tatacatctc 660
39 tccaaaaata tacagatatac caacaagcat gtggaaaat gttcaagcc atttgccagg 720
40 tgcacaaaacc caagacagta tgaggagatg ctacagggac tctgtgtctt cacagacatg 780
41 aagcgttgggt gagaatgtag gcagccgcct ttggggactt cacatccccg ccgccccacg 840
42 cacgggtgagc tagtgtttaa acttagccga gatcaataca cgcgactgtg tgccctgtcag 900
43 accctgcgct gccggcgggg ctgggagagg cgggcgcag gagtggcgg gaaacctgggg 960
44 gtcagggccc agccgcggga agcgcgcaca ggagcgcgcg aaaccccttc cacacccttc 1020
45 caggcatttgc cccgcgcgca ttccagagagc cgaccctgtg cccctggcct ccccttagaca 1080
46 gccccgcata tccagatgtg ccgtcccgcc tgcctccgc gaccactggc catctctgg 1140
47 cctggggcg gttctcgccg cccggcctgc ccccgccagg agccgcagg ccagccatg 1200
48 aagaagcccg cgcctgaagg agcctctgtg ctccagaatc catcctcagt atcagcgctg 1260
49 gggtggcctc ctccaggaag cccttctgtat tctctcatgg gtcgccttc ctctgcagac 1320
50 tcccgagca cccctgtctc caagtaccgc aagtggcact gagaacttgg ggagagcaga 1380
51 ggctgtgcct agatttgtag ggagtccccg cagctccacc ccagggccta caggagcctg 1440
52 gccttggcg aagccgagc aggcaagggt ggaagcaatt cagggagaaaa 1500

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105 ctgtatcaaa ggactgagat tcttccactc aggaccatgt gtgaccccaa cagaaagtag 1740
 106 aaatttacag aaagataacct ggcaaaacac ccaaatagtt tgaagttaaa aaatatacct 1800
 107 ctgaataaca ccccatggaa attttaaag attataatgt gaattaaaat gaaaacatat 1860
 108 aaccataaca aaaattgttag gatacaggaa aactgggtct catatagcat taactgtta 1920
 109 cattacattt tagagaatca acttaattca attatctaag tttctatttt agaaaactat 1980
 110 gtaaaaaaaag gagagcatat taaaaaagta agcagaagaa caaaagataa gcatgacaga 2040
 111 caatgaaatt gaaaatggaa aaatcataga gaagaatcaa atgaatcaa agtagttct 2100
 112 tggaaaagat caataaataa aattgggtga tataatttac tgatatttagg agtggaaag 2160
 113 ataatcactg atcatagatc catgtgaac aagcttattt caataaatta ataaactcag 2220
 114 caacttcaac aaaatggaca gattacttgg aagacaccaa ttaccaaagc tcaaaaaaag 2280
 115 agaatctaaa tagtccata tttatgaaaa aaaaaaaca aactgaattt gtattttaaa 2340
 116 actttgccac aaagaaaatt ttaggttcag atgggttcc taataaattt ttcccatta 2400
 117 gtaagaataa tatcaattct acacaaactc attaaaaaaa aaaggagaga gaataactta 2460
 118 caacacgttc tgcaaggcgtca gtattaccct gataccaaaa caaaggatatacataaaaa 2520
 W--> 119 cgacaccaat atccttcatg aacatagatt cttcaccacg gggctggaaag gatccgnnnn 2580
 W--> 120 nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 2640
 W--> 121 nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnatag cacgccttgc agccctgg 2700
 122 gaatataaga gattaggcata cagcgtgtc tactccaaact ttatttgctt tctgagcata 2760
 123 taattccact ttgcaaaatg gacattttt ttcccttgc agagtcagga aattaccagg 2820
 124 tgcgcagga taatcccttag tatcaactgt aaaatatcg tataaaataa tgagtaagca 2880
 125 tatttcagtg ggtgttata tgctttggc tgcatagcat gagccaaagg cagataaaaa 2940
 126 atgtgggctc cagatgtga ctcaatctcc agaaatcata atgtcagttt cacaatgata 3000
 127 ttcttatatt ggcacacaa aataatccac ttgtcatagg ataattgtc tagatgaggg 3060
 128 catggagctg tgctgaggaa tctgcattt ttctttatcc agactctgtc tcataaccgac 3120
 129 cacaggcccc aatcattgtc tatcaaaaaa catgttgc tctctttgg cttactatga 3180
 130 aaggaagcaaa gatctttcc tcaagcattt aagtgttgc tgcggctac ccagtgtg 3240
 W--> 131 agacactgng gatcaaattt tgcgggtt aaaaatcccc ataactcaact ggatagaaat 3300
 W--> 132 tcaaaatgtct cgctatgttgc attctatgtt caacttccaa ggggacctt ntacccctta 3360
 133 tcttcatcag caagcaacta cattgattt gtggccagg atctattccc acgtcaaccg 3420
 134 tgggttcaa atgttgc tagctcaatg gcctttaag ccactaacc aatatgtgc 3480
 135 ttttaccag taaaaaagtg catctggga ataagttgt gtatattttgt ggttcagcca 3540
 136 gcccatacat cgtccagagg accccaggt taggaggaat cctcagattt gagagccact 3600
 137 gtcctgtatg atgcagatag cacagctt cctgaaaata ggaattcaaa tgagaaaaaa 3660
 138 tggggatccatatt ttcttctgcc tcttcatttcaagtcata taattatcat 3720
 139 gctctattgtt gaagaatcaa agaaagaact cataaaatata ccttttgc tgcgtatgg 3780
 140 aatgtacgtt gtgcattgttgc tttttttttt ttaagcaaat gtcaagaaaa tcccttagtcc 3840
 141 cattgcatttac agtcaatatg gggcaatttca agcaaaatgtt atgcctctaa tatgggttgc 3900
 142 aaattctgaa agttcagaaaa aaatgttgcgacttccatgc tctgtatgttgc tggatatttgc 3960
 143 agaatgagac ctcctctccc tctgcatttcc tcatatccat ctcctccctc ctcttctcc 4020
 144 tctctccctc tcctttatcc tcctctccc tcctctcttcc ccatgttac tccctccctc 4080
 145 ttctccctctt ttcttcattt cccttcatttcc tctctcttcc tctctctccc ttccctccctc 4140
 146 cccttcatttcc tcctccctccct tcctttattt cccttcatttcc tctctcttcc tctctccccc 4200
 147 ttctccatata ttcccttgcagg aggcattttt caaaaactgtt taaacattcc ccaaaaagcat 4260
 148 ttatgcacaa gaattgacta ggatctcacc tgaatcacag agcttgc ctttgcacac 4320
 149 gcaaaatgtca agccatatttcc tcttgcgttgc atgcatttgc ttttgcacac 4380
 150 attttatgtt aaaaaaagct tagcccttttgc tgcacggggat ttccttttttgc ggtatgttgc 4440
 W--> 151 ccaaaatgtca aagacccaaatc gtccagtttca tcaatttttgc tctggacccctt tannnnnnnnn 4500
 W--> 152 nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 4560
 W--> 153 nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nncctgttgc aagacttca cgtgaacttt 4620

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203 aagactgctt gcttgcgggt gtcagtcctc tggccttga ctacagactg tttgtgacat 7620
204 atcttagcac ctaattttat acatattaac tggtagacgc ctgttctct gattaggact 7680
205 gtctgttgg aatttttttgc acatatttttgc tggtagacgc ctgttctct gattaggact 7740
206 ttgtatacac ccatgataac tattttgtgg atggggatgtt gatgttgcgg atagggaaaa 7800
207 gaaaggaagc acaaacgtt cgtatgtgc aactgttcc agaaaggacc cacaggcatt 7860
208 gcatgacacg cagctgtctg gaggccatg tcactgtcc ctctgaggg agctttgtcc 7920
209 gccacactgg cttccgttt aaatttttgc tggtagacgc ttgttctct atgttctct 7980
210 caaaagggtt tggtagacgc aataaaaaac tggtagacgc ttgttctct atgttctct 8040
211 ttgcaagata agtcacataa tcaaatacta gccaatttttgc tggtagacgc ttgttctct 8100
212 gaggcataaca gtcattcaga aaaggaaatg ctcattatga gctagatgtc tggggaaatg 8160
213 gaggcgttgc agcctcataa ggttttttttgc tggtagacgc ttgttctct atgttctct 8220
214 atttggaggc agagtgcag gagtttagag aggttcaggct gtcgttgcgg taaagcatac 8280
215 cctagaaaagg tgaaggtgaa cattgacagg gttgtcaagct acgtgcgtt taggaagtag 8340
216 caggagcat ggggactgaa ggcactgact ctgttattata ggttagaaga ccaggaaact 8400
217 tgctagtgtt taaaatccca gcagaaaaca accagattt gagaaggcgtt gtcgttgcgg 8460
218 cttaaaaaaa tggtagacgc agtagaaacc ttgttatttttgc tggtagacgc ttgttctct 8520
219 aatctctcaa catggaaatg ctttgcggctt ctatttttca ctaccctgc tagactcatc 8580
220 tggaaagagg ctgtacttag gtttttttttgc gatgttgcgg taaagcatac cacattttc 8640
221 ttctctctt cttttatgtt ttttttgcgg ttttttgcgg taaagcatac cacattttc 8700
222 ctggctattt ggagtttttgc gatgttgcgg ttttttgcgg taaagcatac cacattttc 8760
223 gtaccaggaa ctcttagcgtt cgatttcgg ttttttgcgg taaagcatac cacattttc 8820
224 agtgagcgtc ttctgcattt cacccatcaca atgttgcgg ttttttgcgg taaagcatac 8880
225 tggcatcatc aaccctctt ttttttgcgg ttttttgcgg taaagcatac cacattttc 8940
226 aaacgttagt ctttttgcgg ttttttgcgg taaagcatac cacattttc 9000
227 ttctttatca ggcatttctt ttttttgcgg taaagcatac cacattttc 9060
228 ggttagttctt cattttatca ttttttgcgg taaagcatac cacattttc 9120
229 ctggtagtgc gtttttgcgg ttttttgcgg taaagcatac cacattttc 9180
230 ttttttgcgg ttttttgcgg ttttttgcgg taaagcatac cacattttc 9240
231 accggagccc ttttttgcgg ttttttgcgg taaagcatac cacattttc 9300
232 agttgcagat gacgttccaggc gagcgcaggat gatgttgcgg ttttttgcgg taaagcatac 9360
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234 tcaaggcaggc gacgttccaggc gagcgcaggat gatgttgcgg ttttttgcgg taaagcatac 9480
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238 caaaatcatc ttttttgcgg ttttttgcgg taaagcatac cacattttc 9720
239 gagcaacattt gatgttgcgg ttttttgcgg taaagcatac cacattttc 9780
240 tacttgaggc ttttttgcgg ttttttgcgg taaagcatac cacattttc 9840
241 atgatcacac ttttttgcgg ttttttgcgg taaagcatac cacattttc 9900
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W--> 243 tggtagtgc gtttttgcgg ttttttgcgg ttttttgcgg ttttttgcgg ttttttgcgg 10020
W--> 244 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 10080
245 acttcacccc ttttttgcgg ttttttgcgg ttttttgcgg ttttttgcgg ttttttgcgg 10140
246 aaggccccc ttttttgcgg ttttttgcgg ttttttgcgg ttttttgcgg ttttttgcgg 10200
247 cccgccccatt ttttttgcgg ttttttgcgg ttttttgcgg ttttttgcgg ttttttgcgg 10260
248 cttctgcaggc gtttttgcgg ttttttgcgg ttttttgcgg ttttttgcgg ttttttgcgg 10320
249 ttctcaattt ttttttgcgg ttttttgcgg ttttttgcgg ttttttgcgg ttttttgcgg 10380
250 ttccaggctt ttttttgcgg ttttttgcgg ttttttgcgg ttttttgcgg ttttttgcgg 10440
251 accaggaaat ttttttgcgg ttttttgcgg ttttttgcgg ttttttgcgg ttttttgcgg 10500

Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/071,411DATE: 02/28/2002
TIME: 12:36:59Input Set : A:\Seqlist.txt
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L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:77 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:95 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:96 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:119 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:120 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:131 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:132 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:151 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:152 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:153 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:189 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:190 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:191 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:243 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:244 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:324 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:325 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:326 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:422 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:423 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:444 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:445 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:552 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:553 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:554 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:705 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:706 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:707 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:937 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:938 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:1192 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:1193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:1194 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:1442 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:1443 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:1444 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:1762 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:1763 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:2157 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:2158 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:2159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:2444 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:2445 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:2446 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:3415 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63

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L:3433 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63

L:3434 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63

L:3457 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63

L:3458 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63